

# IW10

## WiFi Dongle

### About this product...

The SALUS IW10 WiFi Dongle is a powerful tool designed to enhance the connectivity of your solar power system by seamlessly linking your power inverter to your home WiFi network. Once connected to your WiFi router, the IW10 communicates with the inverter through the SALUS mobile app, enabling real-time data collection and monitoring. This innovative device gathers essential performance metrics and energy usage statistics, which are then transmitted to a secure cloud server. Users can access this data through the app, where it is presented in various graph formats for easy analysis and interpretation. This functionality not only allows homeowners to track their energy production and consumption but also facilitates informed decision-making regarding energy efficiency and system performance, ultimately contributing to a more sustainable energy management approach.



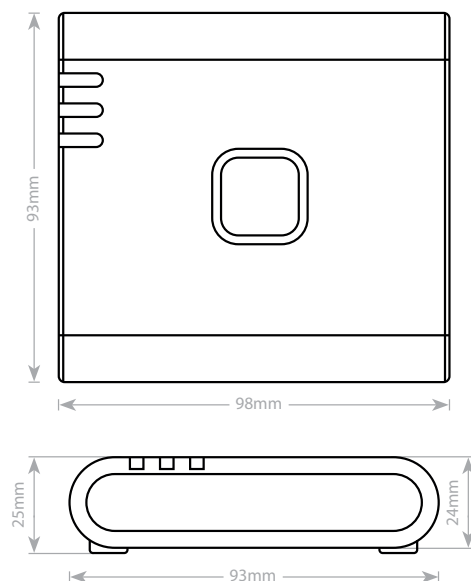
### Features

- Solar inverter information acquisition equipment.
- Supports cloud services.
- 802.11 b/g/n WIFI connection.
- Bluetooth V4.2 BR/EDR and Bluetooth LE specification.
- Power support from RJ45 port.
- Support 485 communication.
- Over the air firmware update capability.

### Specification

|                               |  |
|-------------------------------|--|
| <b>Firmware Update</b>        | OTA firmware update capability and in-board programming port available               |
| <b>Input Power</b>            | 5V_DC from RJ45 port (pin1 VCC /pin2 GND)  |
| <b>Wired Communication</b>    | RS485 communications through RJ45 cables   |
| <b>Wireless Communication</b> | 802.11 b/g/n WIFI connection<br>Bluetooth V4.2 BR/EDR and Bluetooth LE specification |
| <b>Operating Temperature</b>  | 0 to 40°C  |
| <b>Guarantee</b>              | 5 Years  |

### Dimensions



## IW10 WiFi Dongle - Technical Data

### Electrical and Mechanical Specifications

|  |   |
|--|---|
| <b>Power Supply</b>                          | 5V_DC from RJ45 port(pin1 VCC /pin2 GND)  |
| <b>Connectivity</b>                          | ZigBee 3.0 Compliance   |
| <b>Wired Communication</b>                   | RS485 communications through RJ45 cables  |
| <b>Wireless Communication</b>                | Bluetooth v4.2 BR/EDR and BLE (for commissioning only)<br>WiFi: 802.11 b/g/n  |
| <b>Mounting</b>                              | Desktop or surface mount with additional wall bracket to a mounting height of 2m max  |
| <b>LED Light indications</b>                 | Cloud LED - Indicates the dongle is connected to the cloud<br>WiFi LED - Indicates the dongle is connected to the WiFi route.<br>Comm LED - Indicates the communication between the dongle and the inverter is correct. |
| <b>WiFi Connection</b>                       | 802.11 b/g/n  |
| <b>Firmware update</b>                       | Over the air firmware update capability   |
| <b>Wireless Transmission Power</b>           | WiFi: Maximum 16dBm<br>Bluetooth: Maximum 9dBm  |
| <b>Communication</b>                         | Mobile App operation  |
| <b>Outdoor Transmission range</b>            | Bluetooth: Mini 10m<br>WiFi: Mini. 60m  |
| <b>Power Consumption</b>                     | Max. 3W   |
| <b>ESD</b>                                   | IEC61000-4-2, Target $\pm 8$ kV for contact and $\pm 12$ kV for air discharge, no damage to unit.   |
| <b>EFT</b>                                   | IEC61000-4-4, Pass both +/-4KV 100KHz 0.75ms and +/-4KV 5KHz 15ms.  |
| <b>Line Interruptions &amp; Voltage Dips</b> | IEC61000-4-11, Test level Class 3, No lock-up, no loss of memory, Reset OK.   |
| <b>Surge test</b>                            | IEC61000-4-51.0kV, No lock-up, no loss of memory.   |
| <b>Regulatory approval</b>                   | CE,UKCA, FCC for NA.  |
| <b>Power cable</b>                           | 1 meter with M14 aviation plug 4 pins to RJ45   |
| <b>Cloud integration</b>                     | Supports cloud integration to AWS IoT, and other cloud platforms with firmware customization.   |
| <b>Flash Size</b>                            | 16 MB   |
| <b>Housing Material</b>                      | White Plastic   |
| <b>Operating Environment:</b>                | Indoor, residential.  |
| <b>Storage temperature</b>                   | -20°C – 60°C  |
| <b>Operating temperature</b>                 | 0°C – 40°C  |
| <b>Dimensions (H x W x D)</b>                | 98mm x 93mm x 25mm  |
| <b>Relative humidity (noncondensed)</b>      | <90% RH   |
| <b>Ingress Protection Rating</b>             | IP30  |
| <b>Regulation</b>                            | CE, R&TTE, UKCA for EU  |
| <b>Environmental Requirement</b>             | RoHS compliance, REACH/WEEE directive   |
| <b>Guarantee</b>                             | 5 Years   |

## Control & Monitor from anywhere...

With the SALUS Net Zero App.  
Download it from Google Play or the App Store.



Solar energy transferred to the inverter and either stored in the batteries or sent to the grid.

Energy data can be viewed via the App

Dongle collects all data on how much energy is stored or sent to the grid and data is sent to the cloud.

## LED Indicators ...

The SALUS IW10 WiFi Dongle has 3 dual coloured LED to indicate network connection status Cloud, WiFi and Communication.

### CLOUD LED

**GREEN COLOR** - Indicates the dongle is connected to the cloud.  
**RED COLOR** - Indicates the dongle is not connected to the cloud.

### WiFi LED

**GREEN COLOR** - Indicates the dongle is connected to the WiFi router.  
**RED COLOR** - Indicates the dongle is not connected to the WiFi router.  
**ORANGE COLOR** (flashing in 1 second) - indicate the dongle is in WiFi setup mode

### COMM LED

**GREEN COLOR** - Indicates the communication between the dongle and the inverter is correct.  
**RED COLOR** - Indicates the communication between the dongle and the inverter failed.



## Cloud Server...

The WIFI dongle collects all necessary data from the inverter every 5 minutes and sends to the cloud to be displayed via the mobile app in the form of graphs and charts.



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